



PATENT

Attorney Docket No.: INTEL1290-1(P13829X)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Su et al. Art Unit: 1645  
Application No.: 10/660,902 Examiner: Not Yet Assigned  
Filed: September 12, 2003  
Title: METHODS TO INCREASE NUCLEOTIDE SIGNALS BY RAMAN  
SCATTERING

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL SHEET**

Sir:

Transmitted herewith for the above-identified application, please find:

1. Information Disclosure Statement (2 pages);
2. A Form PTO-1449 (2 pages);
3. Thirteen References;
4. International Search Report (8 pages); and
5. Return postcard.

**CERTIFICATION UNDER 37 CFR §1.8**

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on March 29, 2004, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*Karen LePari*

Karen LePari

In re Application of:

Su et al.

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Page 2

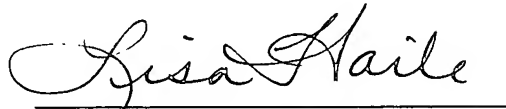
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No fee is deemed necessary in connection with the filing of this Information Disclosure Statement as the items of information contained in this statement were cited in a communication from a foreign patent office in a counterpart foreign application, the communication being dated February 19, 2004, which is not more than three months prior to the filing of this statement. However, if any fee is required, authorization is hereby given to charge the amount of any such fee, or credit any overpayment, to Deposit Account No. 50-1355.

Respectfully submitted,

Date: March 29, 2004



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**INFORMATION DISCLOSURE STATEMENT**

Sir:

In accordance with 37 C.F.R. § 1.97, enclosed are references relating to the above-identified application. Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. For the convenience of the Examiner, these references are listed on the attached Form PTO-1449 and copies are enclosed herewith.

It is respectfully requested that these references be considered in the examination of this application and their consideration be made of written record in the application file.

CERTIFICATION UNDER 37 CFR §1.8

I hereby certify that the documents referred to as enclosed herein are being deposited with the United States Postal Service as first class mail on March 29, 2004, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Page 2

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FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office		Docket No.: INTEL1290-1 (P13829X)	Serial No.: 10/660,902
	Applicants: Su et al.		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Filing Date: September 12, 2003	Group Art Unit: 1645

### U.S. PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA	4,962,037	10/08/1990	Jett et al.			
	AB	5,674,743	10/07/1997	Kevin M. Ulmer			
	AC	2003/0058799 A1	03/27/2003	Yamakawa et al.			

### FOREIGN PATENT DOCUMENTS

EXAM. INITIALS		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION (YES/NO)
	AD	WO 03/027307 A2	04/03/2003	WO			
	AE	WO 03/078649 A2	09/25/2003	WO			

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages)

	AF	Ambrose et al., "Application of Single Molecule Detection to DNA Sequencing and Sizing", <i>Ber. Bunsenges. Phys. Chem.</i> , Vol. 97, No. 12, pp. 1535-1542, 1993.
	AG	Dörre et al., "Techniques for single molecule sequencing", <i>Bioimaging</i> , Vol. 5, No. 3, pp. 139-152, 1997.
	AH	Goodwin et al., "Progress toward DNA sequencing at a single molecular level", <i>Experimental Technique of Physics</i> , Vol. 41, No. 2, pp. 279-294, 1995.
	AF	Goodwin et al., "Single-Molecule Detection in Liquids by Laser-Induced Fluorescence", <i>Accounts of Chemical Research</i> , Vol. 29, pp. 607-613, 1996.
	AJ	Goodwin et al., "Application of Single Molecule Detection to DNA Sequencing", <i>Nucleosides &amp; Nucleotides</i> , Vol. 16, No. 5/6, pp 543-550, 1997.

EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM PTO-1449</b> U.S. Department of Commerce Patent and Trademark Office	<b>Docket No.:</b> INTEL1290-1 (P13829X)	<b>Serial No.:</b> 10/660,902
	<b>Applicants:</b> Su et al.	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>	<b>Filing Date:</b> September 12, 2003	<b>Group Art Unit:</b> 1645

	<b>AK</b>	Kneipp et al., "Detection and identification of a single DNA base molecule using surface-enhanced Raman scattering (SERS)", <i>Physical Review E. Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics, American Institute of Physics</i> , Vol. 47, No. 6, pp R6281-R6284, 1998.
	<b>AL</b>	Schecker et al., "Flow-Based Continuous DNA Sequencing via Single Molecule Detection of Enzymatically cleaved Fluorescent Nucleotides", <i>SPIE</i> , Vol. 2386, pp 4-12, 1995.
	<b>AM</b>	Uibel et al., "Fiber-Optic Raman Spectroscopy for <i>in Situ</i> Monitoring of Metal-Ion Complexation by Ligands Immobilized onto Silica Gel", <i>Applied Spectroscopy</i> , Vol. 54, No. 12, pp 1868-1875, 2000.

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